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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826,359	04/05/2001	Shigeki Totsuka	010496	3990
23850	7590 04/02/2002			
ARMSTRONG,WESTERMAN & HATTORI, LLP 1725 K STREET, NW. SUITE 1000 WASHINGTON, DC 20006			EXAMINER	
			CUEVAS, PEDRO J	
			ART UNIT	PAPER NUMBER
			0024	

Please find below and/or attached an Office communication concerning this application or proceeding.

÷		Application No.	Applicant(s)	
•		09/826,359	TOTSUKA, SHIGEKI	
•	Office Action Summary	Examiner	Art Unit	
		Pedro J. Cuevas	2834	
Dania d 6	The MAILING DATE of this communication Reply	ation appears on the cover shee	et with the correspondence address	
A SH THE - External afternal a	IORTENED STATUTORY PERIOD FOI MAILING DATE OF THIS COMMUNIC. er SIX (6) MONTHS from the mailing date of this communication of the provisions of the provisio	ATION.  37 CFR 1.136(a). In no event, however, m ication. days, a reply within the statutory minimum of tory period will apply and will expire SIX (6) II, by statute, cause the application to becore	ay a reply be timely filed  of thirty (30) days will be considered timely.  MONTHS from the mailing date of this communication.  me ABANDONED (35 U.S.C. § 133).	
1)	Responsive to communication(s) filed	d on		
2a)□		o)⊠ This action is non-final.		
3) <u> </u>	Since this application is in condition f closed in accordance with the practic ion of Claims		matters, prosecution as to the merits is 5 C.D. 11, 453 O.G. 213.	
4)⊠	Claim(s) 1-3 is/are pending in the app	olication.		
	4a) Of the above claim(s) is/are	withdrawn from consideration		
5)	Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>1 and 3</u> is/are rejected.			
7)⊠	Claim(s) 2 is/are objected to.			
8)[	Claim(s) are subject to restriction	on and/or election requirement	•	
Applicat	ion Papers			
9)⊠	The specification is objected to by the l	Examiner.		
10)🏻	The drawing(s) filed on <u>05 April 2001</u> is	s/are: a)⊠ accepted or b)⊡ obje	ected to by the Examiner.	
	Applicant may not request that any object			
11)	The proposed drawing correction filed			
[]	If approved, corrected drawings are requ		1	
,	The oath or declaration is objected to b	y the Examiner.		
Priority (	under 35 U.S.C. §§ 119 and 120			
-	Acknowledgment is made of a claim for	or foreign priority under 35 U.S	S.C. § 119(a)-(d) or (f).	
a)	⊠ All b) Some * c) None of:			
	1.⊠ Certified copies of the priority de	ocuments have been received.	•	
	2. Certified copies of the priority de	ocuments have been received	in Application No	
* (		tional Bureau (PCT Rule 17.2(		
		·	S.C. § 119(e) (to a provisional application).	
8	a) ☐ The translation of the foreign lang Acknowledgment is made of a claim for	uage provisional application ha	as been received.	
Attachmer	<del>-</del>	actional priority dilater 50 G.	C.C. 33 120 GHG/OF 12 II	
1) 🔀 Notion 2) 🔲 Notion (1)	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTo- rmation Disclosure Statement(s) (PTO-1449) Pap	O-948) 5) 🔲 Notic	view Summary (PTO-413) Paper No(s) ce of Informal Patent Application (PTO-152) r:	

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## **DETAILED ACTION**

## **Specification**

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,206,571 to Burri.

Burri clearly teaches the construction of a stepping motor (10), comprising:

exciting coils (15 and 16);

a rotor (11) provided with a plurality of N/S poles so as to rotate following a change of an excitation state of the exciting coils; and

a detecting coil (Column 4, lines 13-17) provided separately from the exciting coils so as to generate induction voltage according to rotation of the rotor.

4. With regards to claim 3, Burri disclose driving apparatus, comprising:

a stepping motor having:

exciting coils (15 and 16),

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a rotor (11) provided with a plurality of N/S poles so as to rotate following a change of an excitation state of the exciting coils, and

a detecting coil (Column 4, lines 13-17) provided separately from the exciting coils so as to generate induction voltage according to rotation of the rotor;

a driven member (103) linked with the rotor;

a stopper (104) to mechanically stop the driven member at a predetermined position;

a first exciting means (43 with Q41 and Q44 on) to normally or reversely rotate the rotor by controlling the excitation state of the exciting coils;

a second exciting means (43 with Q41 and Q44 off) to reverse the rotor in a direction of making the driven member move toward the predetermined position by controlling the excitation state of the exciting coils;

a position detecting means to detect the driven member having abutted the stopper and stopped at the predetermined position on a basis of induction voltage generated in the detecting coil during control by the second exciting means; and

a controlling means (17) which stops the first exciting means controlling and starts the second exciting means controlling when an instruction signal is inputted, and which starts the first exciting means controlling and stops the second exciting means controlling when the position detecting means detects the driven member having stopped at the predetermined position.

Allowable Subject Matter

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5. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

6. The following is a statement of reasons for the indication of allowable subject matter: the

prior art does not teaches the construction of a stepping motor wherein the detecting coil is

provided at a center of a longest peripheral surface between adjoining exciting coils.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The

examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Néstor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for

the organization where this application or proceeding is assigned are (703) 305-1341 for regular

communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas March 24, 2002

HOMAS M. DOUGHERTY BRIMARY EXAMINER

GROUP 2100

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